CIVIL AIM CONSULTANTS & ENGINEERS

(Building Geo-Tech & Highway Materials Testing Laboratory)

An ISO 9001-2015 Certified Company

NABL Accredited As Per ISO/IEC 17025:2017 Laboratory

Job No.: CACE /BBMP/RS/W.No.12/2022-23 Date: 10.11.2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer,Shettyhalli Sub division, BBMP, Bangalore.**

Agency : **Sri R Shivaram, Contractor ,Bangalore.**

Name of the work : Augmentation of Water Supply throught Borewells Network of Pipelines and ground water Recharges facilities in areas layouts of Shettyhalli village, Abbigere Village & ChikkasandraVillage in W.No.12, BBMP, Bangalore.

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{15}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	03.11.2022	10.11.2022	8.145	278.2	12.36
2	03.11.2022	10.11.2022	8.136	265.3	11.79
3	03.11.2022	10.11.2022	8.168	270.9	12.04

Note:

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Received

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ಶೆಟ್ಟಿಹಳ್ಳಿ ಉಪವಿಭಾಗ
ಬಿಬಿಎಂಪಿ, ಬೆಂಗಳೂರು

For CIVIL AIM CONSULTANTS & ENGINEERS

Authorised Signatory

No. 01, Satvika Nilaya, Opp. Widia Poorna Prajna School,
Ramaiah Layout, Nagasandra, Bangalore - 560 073.
Ph: 9591618639, GSTIN: 29CNWPD9510K1ZB, Email: civilaimconsultants@gmail.com

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Job No.: CACE /BBMP/RS/W.No.12/2022-23 Date: 01.12.2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer,Shettyhalli Sub division, BBMP, Bangalore.**

Agency : **Sri R Shivaram, Contractor ,Bangalore.**

Name of the work : Augmentation of Water Supply throught Borewells Network of Pipelines and ground water Recharges facilities in areas layouts of Shettyhalli village, Abbigere Village & ChikkasandraVillage in W.No.12, BBMP, Bangalore.

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{15}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	03.11.2022	01.12.2022	8.178	389.6	17.32
2	03.11.2022	01.12.2022	8.184	376.5	16.73
3	03.11.2022	01.12.2022	8.169	380.1	16.89

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Job No.: CACE /BBMP/RS/W.No.12/2022-23

Date: 16.11.2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : Assistant Executive Engineer, Shettyhalli Sub division, BBMP, Bangalore.

Agency : Sri R Shivaram, Contractor ,Bangalore.

Name of the work : Augmentation of Water Supply throught Borewells Network of Pipelines and ground water Recharges facilities in areas layouts of Shettyhalli village, Abbigere Village & Chikkasandra Village in W.No.12, BBMP, Bangalore.

Sample ID : Cement concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{25}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	09.11.2022	16.11.2022	8.148	400.8	17.81
2	09.11.2022	16.11.2022	8.152	405.2	18.12
3	09.11.2022	16.11.2022	8.119	416.2	18.16

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Job No.: CACE /BBMP/RS/W.No.12/2022-23 Date: 17.11.2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer, Shettyhalli Sub division, BBMP, Bangalore.**

Agency : **Sri R Shivaram, Contractor ,Bangalore.**

Name of the work : Augmentation of Water Supply throught Borewells Network of Pipelines and ground water Recharges facilities in areas layouts of Shettyhalli village, Abbigere Village & Chikkasandra Village in W.No.12, BBMP, Bangalore.

Sample ID : Cement concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{25}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	10.11.2022	17.11.2022	8.145	398.6	17.72
2	10.11.2022	17.11.2022	8.188	406.2	18.05
3	10.11.2022	17.11.2022	8.176	400.8	17.81

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Job No.: CACE /BBMP/RS/W.No.12/2022-23 Date: 08.12.2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer, Shettyhalli Sub division, BBMP, Bangalore.**

Agency : **Sri R Shivaram, Contractor ,Bangalore.**

Name of the work : Augmentation of Water Supply throught Borewells Network of Pipelines and ground water Recharges facilities in areas layouts of Shettyhalli village, Abbigere Village & Chikkasandra Village in W.No.12, BBMP, Bangalore.

Sample ID : Cement concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{25}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	10.11.2022	08.12.2022	8.152	626.3	27.32
2	10.11.2022	08.12.2022	8.169	635.2	27.56
3	10.11.2022	08.12.2022	8.172	600.9	26.71

Note:

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Job No.: CACE /BBMP/RS/W.No.12/2022-23 Date: 19.11.2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : Assistant Executive Engineer, Shettyhalli Sub division, BBMP, Bangalore.

Agency : Sri R Shivaram, Contractor ,Bangalore.

Name of the work : Augmentation of Water Supply throught Borewells Network of Pipelines and ground water Recharges facilities in areas layouts of Shettyhalli village, Abbigere Village & Chikkasandra Village in W.No.12, BBMP, Bangalore.

Sample ID : Cement concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{25}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	12.11.2022	19.11.2022	8.128	395.6	17.14
2	12.11.2022	19.11.2022	8.156	389.1	18.10
3	12.11.2022	19.11.2022	8.164	408.1	18.60

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Job No.: CACE /BBMP/RS/W.No.12/2022-23

Date: 10.12.2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer, Shettyhalli Sub division, BBMP, Bangalore.**

Agency : **Sri R Shivaram, Contractor ,Bangalore.**

Name of the work : Augmentation of Water Supply throught Borewells Network of Pipelines and ground water Recharges facilities in areas layouts of Shettyhalli village, Abbigere Village & Chikkasandra Village in W.No.12, BBMP, Bangalore.

Sample ID : Cement concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{25}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	12.11.2022	10.12.2022	8.186	623.6	27.16
2	12.11.2022	10.12.2022	8.191	635.2	26.34
3	12.11.2022	10.12.2022	8.156	618.9	27.51

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Job No.: CACE /BBMP/RS/W.No.12/2022-23 Date: 21.11.2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : Assistant Executive Engineer, Shettyhalli Sub division, BBMP, Bangalore.

Agency : Sri R Shivaram, Contractor ,Bangalore.

Name of the work : Augmentation of Water Supply throught Borewells Network of Pipelines and ground water Recharges facilities in areas layouts of Shettyhalli village, Abbigere Village & Chikkasandra Village in W.No.12, BBMP, Bangalore.

Sample ID : Cement concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{25}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	14.11.2022	21.11.2022	8.165	389.6	17.24
2	14.11.2022	21.11.2022	8.152	405.2	18.10
3	14.11.2022	21.11.2022	8.119	416.2	18.24

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Job No.: CACE /BBMP/RS/W.No.12/2022-23 Date: 12.12.2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : Assistant Executive Engineer, Shettyhalli Sub division, BBMP, Bangalore.

Agency : Sri R Shivaram, Contractor ,Bangalore.

Name of the work : Augmentation of Water Supply throught Borewells Network of Pipelines and ground water Recharges facilities in areas layouts of Shettyhalli village, Abbigere Village & Chikkasandra Village in W.No.12, BBMP, Bangalore.

Sample ID : Cement concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{25}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	14.11.2022	12.12.2022	8.144	626.3	29.15
2	14.11.2022	12.12.2022	8.153	608.2	28.14
3	14.11.2022	12.12.2022	8.172	598.6	26.14

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Job No.: CACE /BBMP/RS/W.No.12/2022-23 Date: 16.12.2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer, Shettyhalli Sub division, BBMP, Bangalore.**

Agency : **Sri R Shivaram, Contractor ,Bangalore.**

Name of the work : Augmentation of Water Supply throught Borewells Network of Pipelines and ground water Recharges facilities in areas layouts of Shettyhalli village, Abbigere Village & Chikkasandra Village in W.No.12, BBMP, Bangalore.

Sample ID : Cement concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{25}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	18.11.2022	16.12.2022	8.141	626.3	29.54
2	18.11.2022	16.12.2022	8.147	635.2	29.14
3	18.11.2022	16.12.2022	8.154	600.9	27.54

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Job No.: CACE /BBMP/RS/W.No.12/2022-23

Date : 02.11.2022

GRADATION FOR WMM

Client : **Assistant Executive Engineer,Shettyhalli Sub division, BBMP, Bangalore.**

Agency : **Sri R Shivaram, Contractor ,Bangalore.**

Name of Work : Augmentation of Water Supply throught Borewells Network of Pipelines and ground water Recharges facilities in areas layouts of Shettyhalli village, Abbigere Village & ChikkasandraVillage in W.No.12, BBMP, Bangalore.

IS Code: : IS 2386 (Part 1):1963(RA 2011)

Date of Testing : 02.11.2022

Material Type : Wet Mix Macadam

Oven Dry.Wt, gran 10000

Is Sieve Size in mm	Weight Retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Requirement as per MORTH 5th edition table no 400.13
53	0	0	0	100	100
45	196	196	2.0	98.0	95-100
22.4	2520	2716	27.2	72.8	60-80
11.2	2152	4868	48.7	51.3	40-60
4.75	1832	6700	67.0	33.0	25-40
2.36	1185	7885	78.9	21.2	15-30
0.600	621	8506	85.1	14.9	8-22
0.075	1239	9745	97.5	2.6	0-5

Received

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Job No.: CACE /BBMP/RS/W.No.12/2022-23

Date : 02.11.2022

GRADATION FOR WMM

Client : **Assistant Executive Engineer,Shettyhalli Sub division, BBMP, Bangalore.**

Agency : **Sri R Shivaram, Contractor ,Bangalore.**

Name of Work : Augmentation of Water Supply throught Borewells Network of Pipelines and ground water Recharges facilities in areas layouts of Shettyhalli village, Abbigere Village & ChikkasandraVillage in W.No.12, BBMP, Bangalore.

IS Code: : IS 2386 (Part 1):1963(RA 2011)

Date of Testing : 02.11.2022

Material Type : Wet Mix Macadam

Oven Dry.Wt, gran 10000

Is Sieve Size in mm	Weight Retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Requirement as per MORTH 5th edition table no 400.13
53	0	0	0	100	100
45	182	182	1.8	98.2	95-100
22.4	2532	2714	27.1	72.9	60-80
11.2	2150	4864	48.6	51.4	40-60
4.75	1844	6708	67.1	32.9	25-40
2.36	1197	7905	79.1	21.0	15-30
0.600	585	8490	84.9	15.1	8-22
0.075	1225	9715	97.2	2.8	0-5

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Job No.: CACE /BBMP/RS/W.No.12/2022-23 Date: 02.11.2022

Aggregate Impact Value

Client	**: Assistant Executive Engineer,Shettyhalli Sub division, BBMP, Bangalore.**
Agency	**: Sri R Shivaram, Contractor ,Bangalore.**
Name of the Work	: Augmentation of Water Supply throught Borewells Network of Pipelines and ground water Recharges facilities in areas layouts of Shettyhalli village, Abbigere Village & ChikkasandraVillage in W.No.12, BBMP, Bangalore.
IS Code	IS 2386 (Part 4):1963(RA 2011)
Type of Mix	Wet Mix macadam
Date of Testing	02.11.2022

Sl No.	Details	Test No.		Average
		1	2	
1	Total weight of aggregate sample filling the cylindrical measure = W_1 g	380	381	
2	Weight of agregate passing 2.36 mm sieve after the test = W_2 g	86	88	
3	Weight of aggregate retained 2.36 mm sieve after the test = W_3 g	294	293	
4	Aggregate Impact value = percent fines 100* (W_2/W_1)%	22.63	23.10	22.86

Comments:

→ Maximum allowable Aggregate Impact value for Wet mix Macadam is 30%(As per MORTH Specication table 400.12)

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ಬಿಬಿಎಂಪಿ, ಬೆಂಗಳೂರು

Note:

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→ The results indicated above are based on the tests carried out on the samples collected at the site.

→ Any Query regarding the report must be reported within 30 days from the date of testing.

For CIVIL AIM CONSULTANTS & ENGINEERS

Authorised Signatory

No. 01, Satvika Nilaya, Opp. Widia Poorna Prajna School,
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CIVIL AIM CONSULTANTS & ENGINEERS

(Building Geo-Tech & Highway Materials Testing Laboratory)

An ISO 9001-2015 Certified Company

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Job No.: CACE /BBMP/RS/W.No.12/2022-23 Date : 02.11.2022

DETERMINATION OF FLAKINESS INDEX & ELONGATION INDEX OF COARSE AGGREGATES

Client	: Assistant Executive Engineer,Shettyhalli Sub division, BBMP, Bangalore.
Agency	: Sri R Shivaram, Contractor ,Bangalore.
Name of Work	: Augmentation of Water Supply throught Borewells Network of Pipelines and ground water Recharges facilities in areas layouts of Shettyhalli village, Abbigere Village & ChikkasandraVillage in W.No.12, BBMP, Bangalore.
BIS code:	IS 2386(Part 1) 1963 (RA 2011)
Type of Mix	Wet Mix Macadam
Date of Testing	02.11.2022

Sl no	Test	1	2	Requirements as per MORTH 5th edition table no 400.12
1	Flakiness Index %	12.10	12.00	Combined Flakiness & Elongation index Max 35%
2	Elongation Index %	13.50	13.30	
	Combined Flakiness & Elongation index	25.60	25.30	

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ಶೆಟ್ಟಿಹಳ್ಳಿ ಉಪವಿಭಾಗ
ಬಿಬಿಎಂಪಿ, ಬೆಂಗಳೂರು

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Job No.: CACE /BBMP/RS/W.No.12/2022-23 Date : 02.11.2022

ATTERBERG LIMITS TEST FOR WMM

Client : **Assistant Executive Engineer,Shettyhalli Sub division, BBMP, Bangalore.**

Agency : **Sri R Shivaram, Contractor ,Bangalore.**

Name of Work : Augmentation of Water Supply throught Borewells Network of Pipelines and ground water Recharges facilities in areas layouts of Shettyhalli village, Abbigere Village & ChikkasandraVillage in W.No.12, BBMP, Bangalore.

IS Code: : IS 2720(Part 5):1985

Date of Testing : 31.10.2022 TO 02.11.2022

Material Type : Wet Mix Macadam

Sl. No.	Particulars	Test Results	Requirement as per MORTH 5th edition Cl.406.2.1.2
1	Liquid Limit	21.00	-
2	Plasticity Index, %	Non Plastic	6.0% Maximum.

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